

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-LABOP-04		Page 1 of 4
Title: Method SOPs, Extraction, Clean-up and Analysis		
Revision: 5	Replaces: 04/01/05	Effective: 04/01/07

1. Purpose:

To provide standard procedures for the analytical method used to extract, clean-up and analyze USDA/AMS Pesticide Data Program (PDP) samples.

2. Scope:

This standard operating procedure (SOP) shall be followed by all laboratories conducting residue studies for PDP, including support laboratories conducting stability or other types of studies that may impact the program.

3. Outline of Procedure:

- 5.1 Method of extraction
- 5.2 Method of clean-up
- 5.3 Method of analysis

4. References:

- USDA/AMD PDP Quality Assurance-Technical Meeting, March 22-24, 2005
- USDA/AMS PDP Quality Assurance Meeting, April 4-5, 2000
- USDA/AMS PDP Quality Assurance Meeting, May 18-20, 1999
- 40 CFR 160.185, Reporting of study results

5. Specific Procedures:

This SOP represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

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5.1 Method of extraction

This portion of the analytical method shall detail reagents and supplies, laboratory apparatus, and specific extraction procedures. The method shall be reviewed and approved by the laboratory Quality Assurance Unit (QAU) and the Technical Program Manager and filed with the USDA/AMS Technical Director.

5.2 Method of clean-up

This portion of the analytical method shall detail reagents and supplies, laboratory apparatus, and specific procedures used in any concentration, clean-up, partition, evaporation and/or other manipulation of the sample to prepare it for analytical determination. The method shall be reviewed and approved by the laboratory QAU and the Technical Program Manager and filed with the USDA/AMS Technical Director. All modifications shall be reviewed by the local QAU and approved by the Technical Program Manager and the USDA/AMS Technical Director.

5.3 Method of analysis

Each laboratory shall develop a SOP detailing the method of analysis for PDP samples. This method should include all instrument parameters and shall be reviewed and approved by the laboratory QAU and the Technical Program Manager and filed with the USDA/AMS Technical Director.

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Revision 5 February 2005 Monitoring Programs Office

- Modified format to conform with other SOPs

Revision 4

- General update